

SEVIER LAKE BASIN

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10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE^{1/4} SE^{1/4} sec. 9, T. 18 S., R. 3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge, 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal National Forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi².

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WDR UT-81-1: 1979, 1980(M). WDR UT-01-1: 2000, daily values.

GAGE.--Water-stage recorder. Crest-stage gage installed August 22, 2000. Elevation of gage is 6,500 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records do not include flow diverted around station in a 12-inch pipeline by city of Manti for culinary purposes and for generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft³/s, Jun 28, 1995, gage height, 5.49 ft; minimum, 0.9 ft³/s, Nov 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 226 ft³/s, May 10, gage height, 4.65 ft; minimum daily discharge, 3.2 ft³/s, Feb 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.7	4.5	4.5	e3.8	e3.4	12	38	109	32	13	7.4
2	5.0	4.5	4.4	4.6	3.8	e3.6	15	43	122	30	14	7.2
3	4.9	4.2	4.6	4.6	3.8	3.7	18	39	133	30	14	7.4
4	5.0	e4.2	4.5	e4.4	3.8	3.7	16	56	138	28	13	7.5
5	5.0	e4.2	4.7	e4.2	3.7	3.8	17	76	138	27	12	7.5
6	4.9	e4.4	4.9	e4.4	3.8	3.6	17	91	131	27	11	7.2
7	4.8	4.7	e4.6	4.5	3.7	4.0	20	95	124	26	11	6.9
8	4.6	4.7	4.6	4.5	3.7	5.0	21	106	115	25	10	6.7
9	4.7	4.7	e4.6	e4.4	3.7	5.8	19	123	104	24	10	6.6
10	4.6	4.9	e4.6	e4.4	e3.6	5.9	16	136	97	24	9.7	6.5
11	4.6	4.8	4.9	e4.4	3.9	6.2	14	128	87	23	9.4	6.4
12	4.6	4.4	4.7	e4.4	3.6	6.2	13	108	81	22	9.4	6.4
13	4.5	4.5	4.6	e4.4	e3.5	6.1	14	91	76	22	9.7	6.2
14	4.4	4.5	4.6	e4.4	3.6	6.2	15	82	72	22	9.6	6.1
15	4.4	4.5	e4.6	4.5	3.5	6.3	15	80	66	21	9.6	6.1
16	4.4	4.5	e4.8	4.3	3.4	6.3	15	88	61	22	9.5	6.0
17	4.4	3.7	5.3	4.2	e3.4	6.5	16	97	64	21	9.5	5.9
18	4.4	e4.0	5.7	4.3	e3.4	6.9	16	112	68	20	9.5	5.6
19	4.3	e4.0	5.8	4.3	3.5	8.0	15	115	53	19	9.3	6.7
20	4.4	e4.4	4.9	4.2	e3.2	9.5	14	117	49	19	9.1	6.0
21	4.3	4.5	4.9	4.0	3.4	11	14	118	46	18	9.0	5.9
22	4.2	e4.4	4.6	4.0	3.4	13	15	123	44	17	8.9	5.8
23	4.2	e4.2	e4.4	e4.0	3.3	14	15	119	41	17	8.6	5.8
24	4.2	e4.0	e4.4	e3.8	3.3	14	17	119	39	16	8.4	5.6
25	4.0	e4.0	e4.4	e4.0	3.4	14	17	120	39	16	8.2	5.5
26	4.1	e4.2	4.6	4.0	3.5	14	18	123	39	16	8.3	5.4
27	4.2	e4.4	4.6	3.9	3.4	11	21	135	37	15	8.3	5.3
28	4.3	e4.6	4.6	4.0	3.5	9.6	25	138	36	14	8.1	5.3
29	4.3	4.7	4.5	3.9	3.6	9.3	24	133	35	14	8.0	6.2
30	4.4	4.7	4.4	3.8	---	9.7	25	110	33	13	7.8	5.7
31	4.4	---	4.5	3.8	---	11	---	103	---	13	7.6	---
TOTAL	139.2	132.2	145.8	131.1	103.2	241.3	509	3,162	2,277	653	303.5	188.8
MEAN	4.49	4.41	4.70	4.23	3.56	7.78	17.0	102	75.9	21.1	9.79	6.29
MAX	5.0	4.9	5.8	4.6	3.9	14	25	138	138	32	14	7.5
MIN	4.0	3.7	4.4	3.8	3.2	3.4	12	38	33	13	7.6	5.3
AC-FT	276	262	289	260	205	479	1,010	6,270	4,520	1,300	602	374

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	8.05	6.50	5.20	4.76	4.57	6.14	18.1	98.4	129	41.3	15.9	10.2
MAX	18.6	12.5	9.85	8.79	8.46	12.3	87.4	232	317	183	42.3	26.0
(WY)	(1984)	(1985)	(1984)	(1984)	(1984)	(1986)	(1985)	(1984)	(1983)	(1995)	(1983)	(1995)
MIN	4.14	3.77	3.35	3.05	3.13	3.22	5.46	47.1	32.2	10.8	5.36	3.65
(WY)	(2001)	(1993)	(1979)	(1981)	(1967)	(1991)	(1967)	(1990)	(1966)	(2002)	(2002)	(2000)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1965 - 2004
ANNUAL TOTAL	7,795.8	7,986.1	
ANNUAL MEAN	21.4	21.8	
HIGHEST ANNUAL MEAN			29.0
LOWEST ANNUAL MEAN			12.8
HIGHEST DAILY MEAN	238	Jun 1	61.0
LOWEST DAILY MEAN	2.6	Mar 2	12.8
ANNUAL SEVEN-DAY MINIMUM	2.7	Feb 27	1984
ANNUAL RUNOFF (AC-FT)	15,460	15,840	2002
10 PERCENT EXCEEDS	50	81	547 Jun 28, 1995
50 PERCENT EXCEEDS	5.4	6.2	1.8 Dec 13, 2000
90 PERCENT EXCEEDS	3.4	3.8	2.3 Dec 9, 2000
			21,040 78 8.2 4.0

e Estimated

